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8/4/2017 2:35:44 PM

HVAC SYMBOL LEGEND				HVAC ABBREVIATIONS				HVAC GENERAL NOTES					
SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION			
		-CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)				-FIRE DAMPER (WITH ACCESS PANEL)		AFD		-ADJUSTABLE FREQUENCY DRIVE		<div>1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.</div> <div>2. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT.</div> <div>3. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.</div> <div>4. SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.</div> <div>5. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.</div> <div>6. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.</div> <div>7. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.</div> <div>8. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.</div> <div>9. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.</div> <div>10. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.</div> <div>11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.</div> <div>12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.</div> <div>13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.</div> <div>14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.</div> <div>15. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.</div> <div>16. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.</div> <div>17. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES.</div> <div>18. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS.</div> <div>19. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.</div> <div>20. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.</div> <div>21. ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER.</div> <div>22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.</div> <div>23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS.</div> <div>24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.</div> <div>25. WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI.</div> <div>26. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.</div> <div>27. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING.</div> <div>28. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.</div>	
		-ROUND DIFFUSER				-FIRE & SMOKE DAMPER (WITH ACCESS PANEL)		AFF		-ABOVE FINISHED FLOOR			
		-CEILING RETURN				-EXISTING FIRE DAMPER TO REMAIN		AFR		-ABOVE FINISHED ROOF			
		-CEILING EXHAUST				-EXISTING FIRE & SMOKE DAMPER TO REMAIN		AHU		-AIR HANDLING UNIT			
		-CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)				-SOUND ATTENUATOR		AP		-ACCESS PANEL			
		-SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)				-MOTOR OPERATED CONTROL DAMPER (MOD)		BOP		-BOTTOM OF PIPE			
		-RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)				-AIR FLOW MEASURING STATION		BHP		-BRAKE HORSEPOWER			
		-REVISION REFERENCE				-MANUAL BALANCING DAMPER		BTU		-BRITISH THERMAL UNIT			
		-DETAIL REFERENCE: TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON				-DOOR GRILLE		h		-CENTER LINE			
		-THERMOSTAT/TEMPERATURE SENSOR				-UNDERCUT DOOR		CFM		-CFM (CUBIC FEET PER MINUTE)			
		-HUMIDISTAT/HUMIDITY SENSOR				-ACCESS DOORS, VERTICAL OR HORIZONTAL		CD		-CEILING DIFFUSER			
		-DUCT SMOKE DETECTOR				-STAINLESS STEEL DUCTWORK		CT		-COOLING TOWER			
		-CONNECT TO EXISTING				-FLEXIBLE CONNECTION		CV		-CONSTANT AIR VOLUME			
		-DEMOLISH TO POINT INDICATED				-FLAT OVAL DUCT		ΔP		-CHANGE IN PRESSURE			
		-MOTORIZED CONTROL DAMPER				-NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN		ΔT		-CHANGE IN TEMPERATURE			
		-TEMPERATURE SENSOR				-EXISTING DUCTWORK TO REMAIN		CFM		-CUBIC FEET PER MINUTE			
		-PRESSURE SENSOR				-EXISTING DUCTWORK TO BE REMOVED		PVC		-POLYVINYL CHLORIDE PIPE			
		-BACKDRAFT DAMPER				-DUCT ELBOW, POSITIVE PRESSURE (SUPPLY), FIRST DIMENSION INDICATES SIDE TO WHICH ARROW IS POINTING		CU		-CONDENSING UNIT			
		-NEUTRAL RELATIVE PRESSURE				-DUCT ELBOW, EXHAUST		DDC		-DIRECT DIGITAL CONTROLS			
		-POSITIVE RELATIVE PRESSURE				-DUCT ELBOW, NEGATIVE PRESSURE, RETURN		DN		-DOWN			
		-NEGATIVE RELATIVE PRESSURE				-DUCT ELBOW UP THROUGH ROOF OR SLAB ABOVE		EAT		-ENTERING AIR TEMPERATURE			
		-SHEET NOTE CALLOUT				-RECTANGULAR DUCT SECTION UP, POSITIVE PRESSURE, SUPPLY OR OUTSIDE AIR		ESP		-EXTERNAL STATIC PRESSURE			
		-SHEET NOTE CALLOUT				-RECTANGULAR DUCT SECTION UP, NEGATIVE PRESSURE, RETURN		EWT		-ENTERING WATER TEMPERATURE			
		-SHEET NOTE CALLOUT				-RECTANGULAR DUCT SECTION UP, EXHAUST		FD		-FIRE DAMPER			
		-CEILING MOUNTED ACCESS DOOR				-ROUND DUCT SECTION UP		FF		-FINAL FILTERS			
		-SQUARE THROAT ELBOW W/TURNING VANES				-FLAT OVAL DUCT SECTION UP		FLA		-FULL LOAD AMPS			
		-RADIUS ELBOW						FPM		-FEET PER MINUTE			
		-RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF						GPM		-GALLONS PER MINUTE			
		-EXHAUST DUCT UP THROUGH SLAB W/ FAN ON ROOF ABOVE						KW		-KILOWATT			
		-EXHAUST FAN ON ROOF W/ DUCT DOWN THROUGH ROOF						LAT		-LEAVING AIR TEMPERATURE			
								LWT		-LEAVING WATER TEMPERATURE			

HVAC PIPING SYMBOL LEGEND				HVAC EQUIPMENT TAGS					
SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION			
		-CONDENSER WATER SUPPLY				-AIR DISTRIBUTION DEVICE		1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED. 2. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT. 3. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD. 4. SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK. 5. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS. 6. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED. 7. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES. 8. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS. 9. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION. 10. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. 11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK. 12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT. 13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED. 14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT. 15. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT. 16. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS. 17. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES. 18. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS. 19. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED. 20. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE. 21. ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER. 22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS. 23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS. 24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK. 25. WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI. 26. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN. 27. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING. 28. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.	
		-CONDENSER WATER RETURN				-AIR HANDLING UNIT			
		-CHILLED WATER SUPPLY				-AIR HANDLING UNIT			
		-CHILLED WATER RETURN				-AIR HANDLING UNIT			
		-CONDENSATE				-AIR HANDLING UNIT			
		-CONDENSATE RETURN				-AIR HANDLING UNIT			
		-PUMPED CONDENSATE				-AIR HANDLING UNIT			
		-HOT WATER RETURN				-AIR HANDLING UNIT			
		-HOT WATER SUPPLY				-AIR HANDLING UNIT			
		-HIGH PRESSURE STEAM SUPPLY				-AIR HANDLING UNIT			
		-MEDIUM PRESSURE STEAM SUPPLY				-AIR HANDLING UNIT			
		-LOW PRESSURE STEAM SUPPLY				-AIR HANDLING UNIT			
		-HIGH PRESSURE STEAM RETURN				-AIR HANDLING UNIT			
		-MEDIUM PRESSURE STEAM RETURN				-AIR HANDLING UNIT			
		-LOW PRESSURE STEAM RETURN				-AIR HANDLING UNIT			
		-REFRIGERANT LIQUID				-AIR HANDLING UNIT			
		-REFRIGERANT SUCTION				-AIR HANDLING UNIT			
		-TEE, OUTLET DOWN				-AIR HANDLING UNIT			
		-TEE, OUTLET UP				-AIR HANDLING UNIT			
		-45° PIPE RISE (R)/DROP (D)				-AIR HANDLING UNIT			
		-PIPE ANCHORS				-AIR HANDLING UNIT			
		-CONCENTRIC REDUCER				-AIR HANDLING UNIT			
		-ECCENTRIC REDUCER				-AIR HANDLING UNIT			
HVAC PIPING SYMBOL LEGEND				HVAC EQUIPMENT TAGS					
SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION			
		-FLOW DIRECTION				-P-TRAP		1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED. 2. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT. 3. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD. 4. SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK. 5. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS. 6. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED. 7. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES. 8. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS. 9. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION. 10. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. 11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK. 12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT. 13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED. 14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT. 15. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT. 16. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS. 17. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES. 18. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS. 19. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED. 20. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE. 21. ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER. 22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS. 23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS. 24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK. 25. WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI. 26. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN. 27. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING. 28. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.	
		-GATE VALVE				-TWO-WAY CHECK VALVE			
		-BALL VALVE				-MANUAL VENT			
		-CALIBRATING BALANCING VALVE				-PRESSURE GAUGE			
		-BUTTERFLY VALVE				-RELIEF VALVE			
		-GAS COCK				-FLOW METER			
		-UNION				-WATER METER			
		-STRAINER				-INLINE PUMP			
		-CONTROL VALVE				-INLINE PUMP			
		-SOLENOID VALVE				-VALVE ON RISER			
		-PSI REG.				-CAP			
		-CHECK VALVE				-CONNECTION, BOTTOM			
		-FLOW SWITCH				-CONNECTION, TOP			
		-SLOPE DIRECTION (DOWN)				-COUPLING			
		-FLEX CONNECTION				-ELBOW, 90°			
		-O.S.&Y. GATE VALVE				-ELBOW, 45°			
		-STEAM TRAP				-ELBOW, TURNED DOWN			
		-THREE-WAY CONTROL VALVE				-ELBOW, TURNED UP			
		-THERMOMETER							
HVAC PIPING SYMBOL LEGEND				HVAC EQUIPMENT TAGS					
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		-P-TRAP				-AIR DISTRIBUTION DEVICE		1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED. 2. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT. 3. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD. 4. SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK. 5. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS. 6. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED. 7. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES. 8. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS. 9. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION. 10. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. 11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK. 12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT. 13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED. 14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT. 15. ALL DUCTWORK AND PIP	

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DRAWING TITLE
**MECHANICAL
LEGEND,
GENERAL NOTES,
& SHEET INDEX**
DATE
8/15/2017 | TLC
JOB NUMBER
140404
DRAWING NUMBER

M0.00

100%DD - 08/15/17



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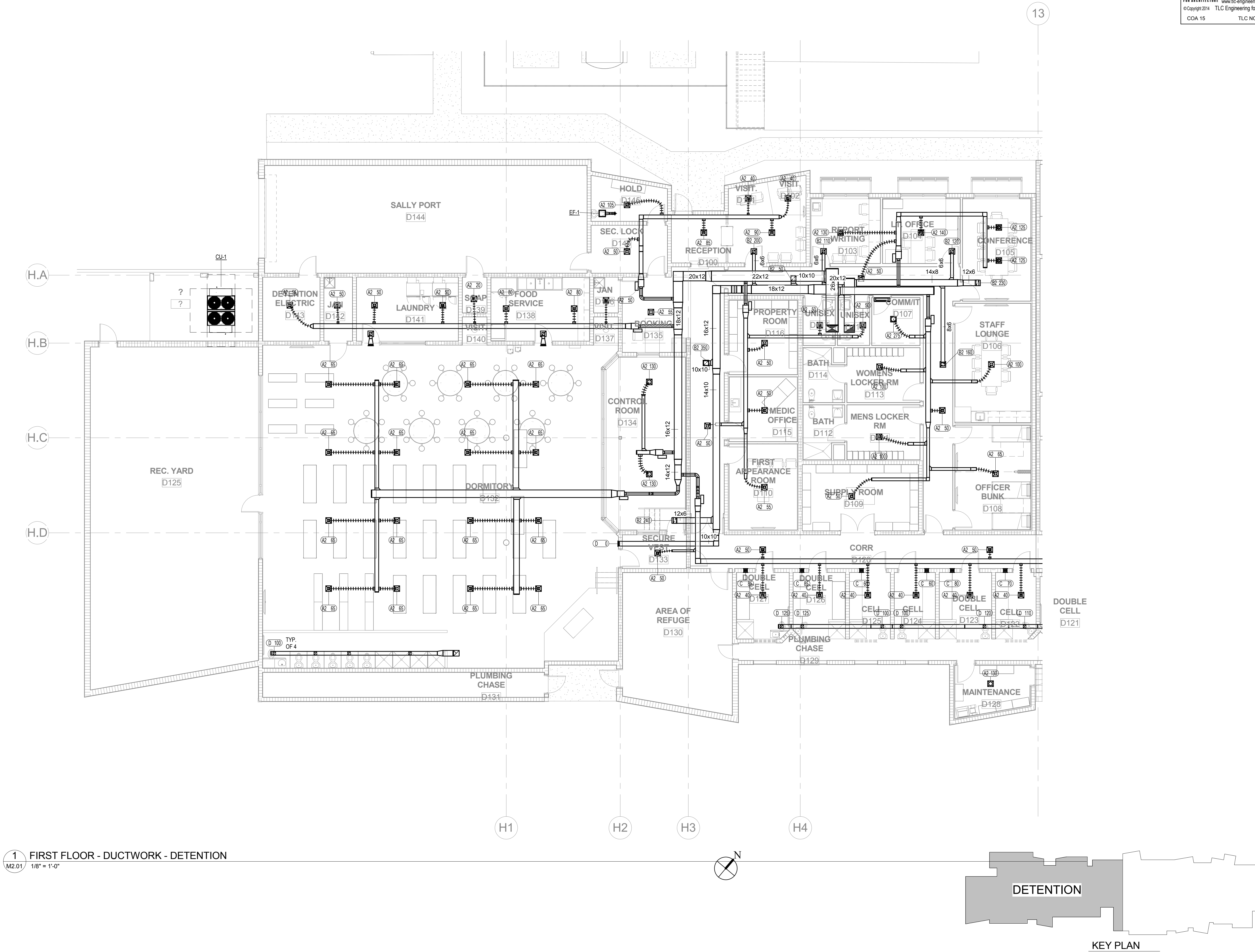
**FIRST FLOOR
MECHANICAL
PLAN-
DETENTION
FACILITY**

DATE
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DRAWING NUMBER

M2.01





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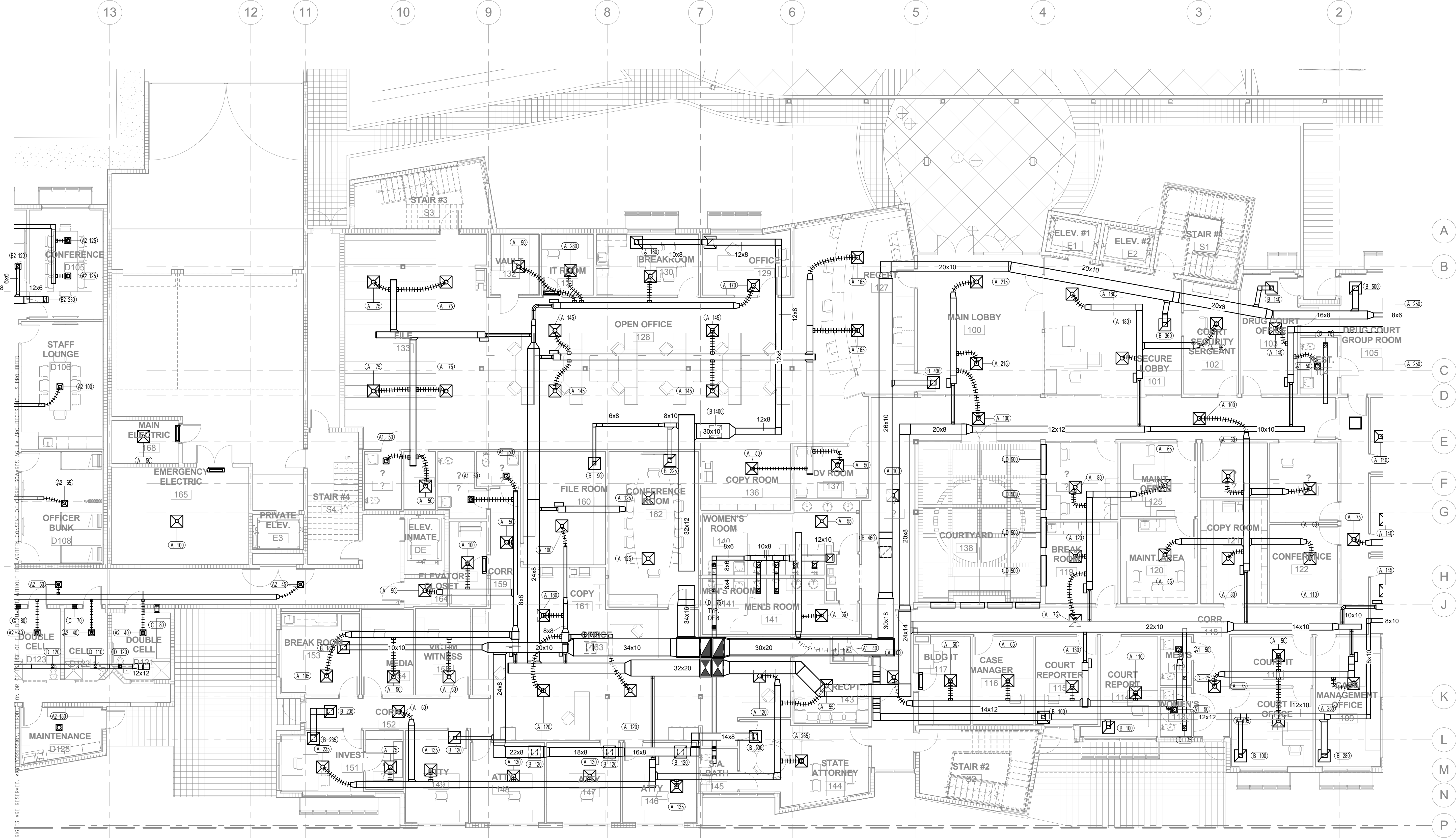
**FIRST FLOOR
MECHANICAL
PLAN -
COURTHOUSE**

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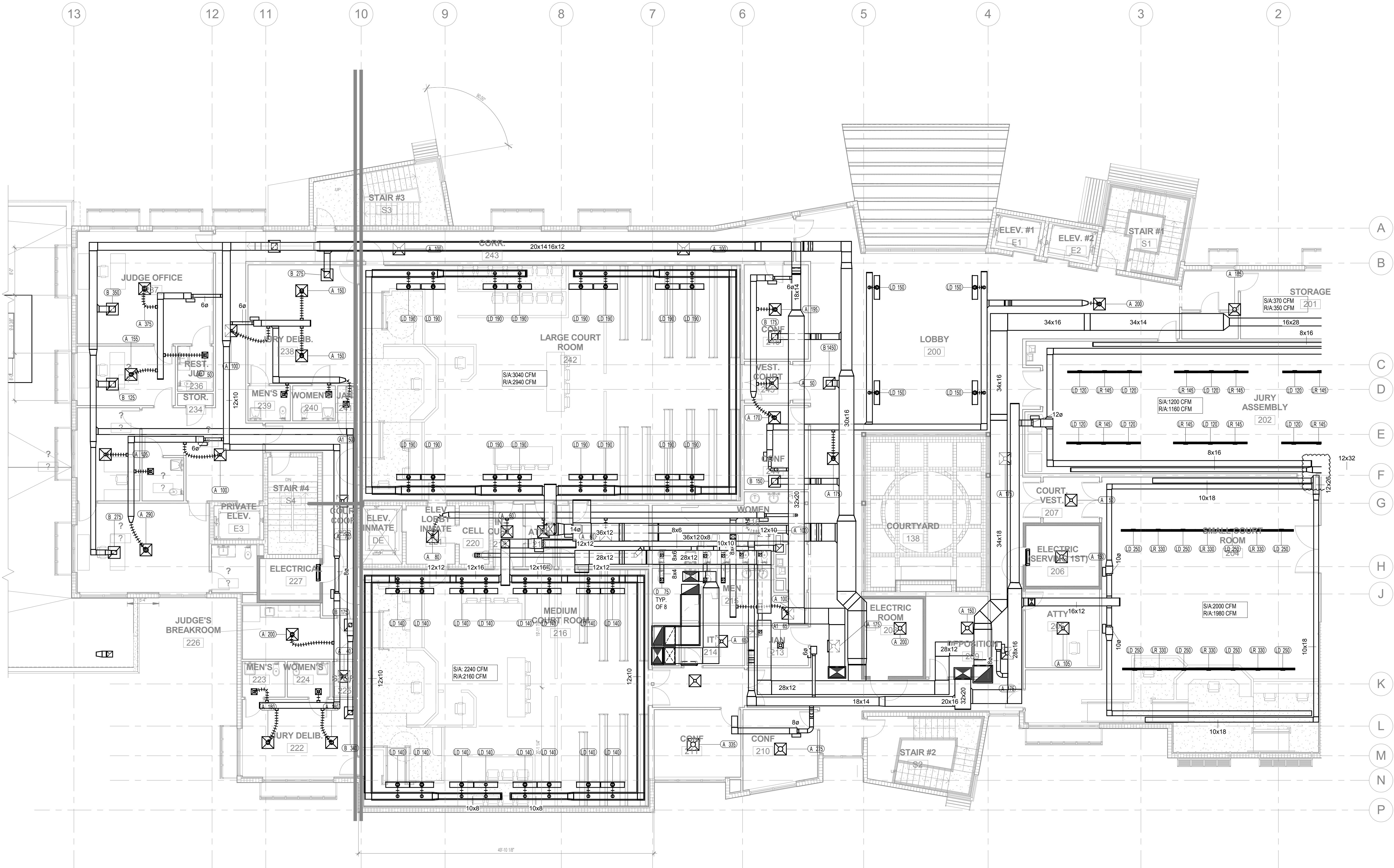
**SECOND FLOOR
MECHANICAL
PLAN -
COURTHOUSE**

DATE
8/15/2017 | DRAWN BY
TLC

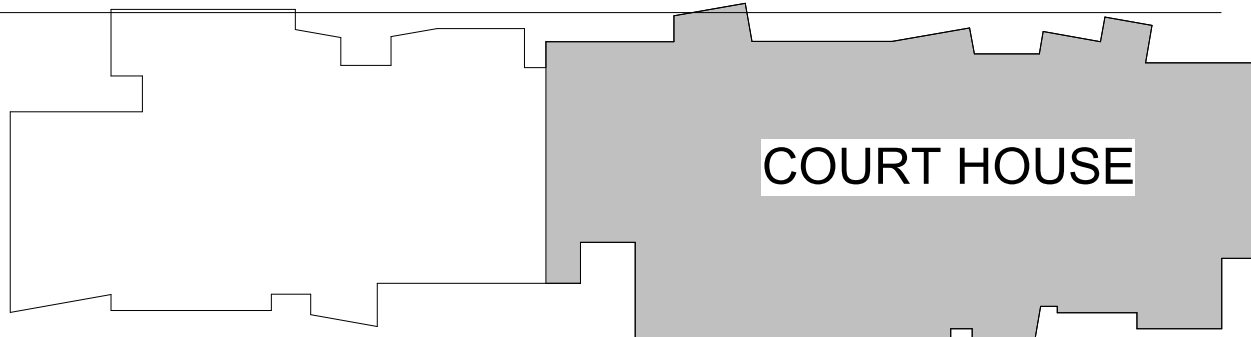
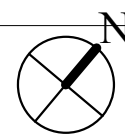
JOB NUMBER
140404

DRAWING NUMBER

M2.03



1 SECOND FLOOR - DUCTWORK - COURTHOUSE
M2.03 1/8" = 1'-0"



KEY PLAN



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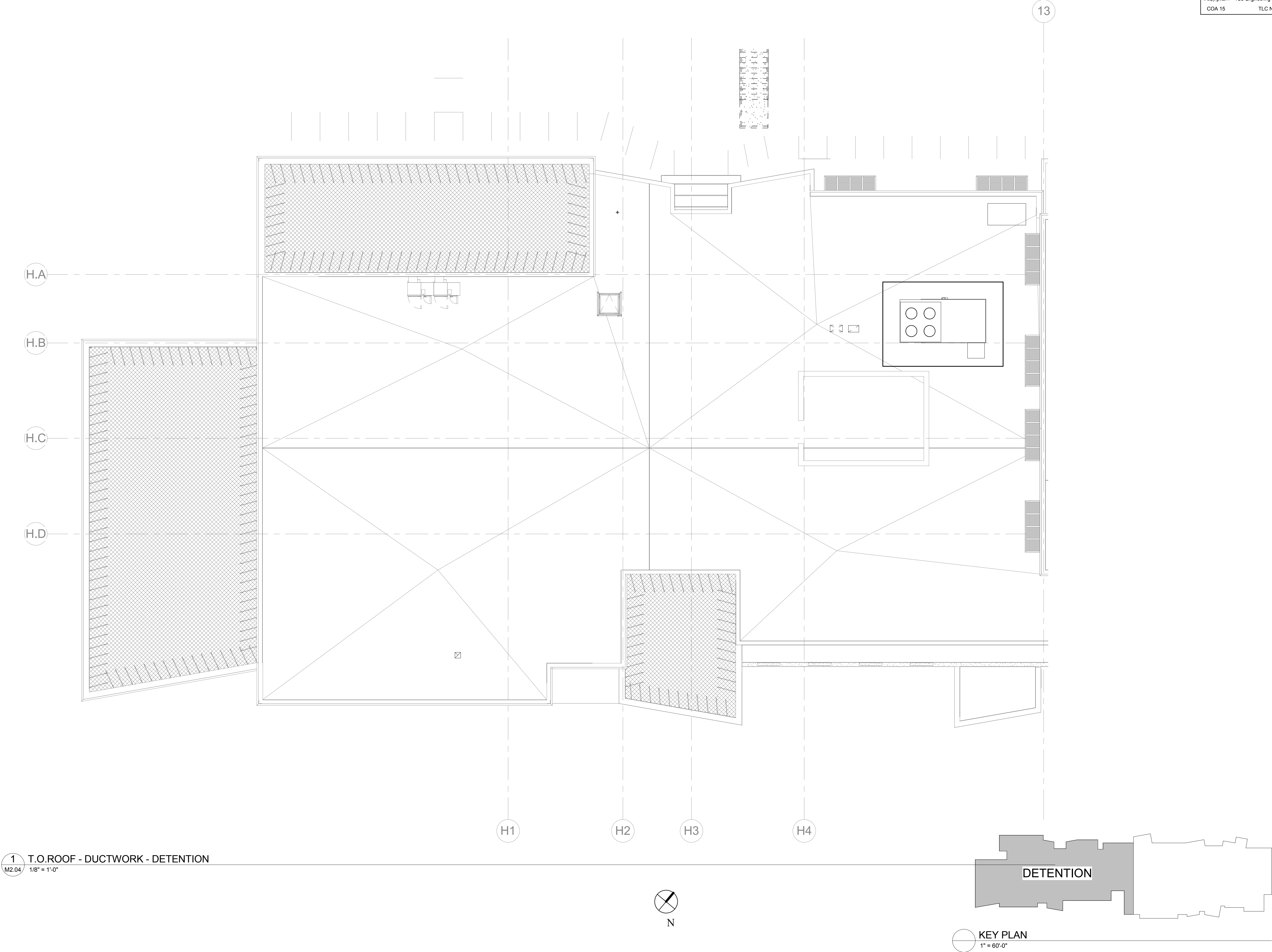
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DRAWING TITLE

**MECHANICAL
ROOF PLAN -
DETENTION**

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Author
JOB NUMBER
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DRAWING NUMBER

M2.04





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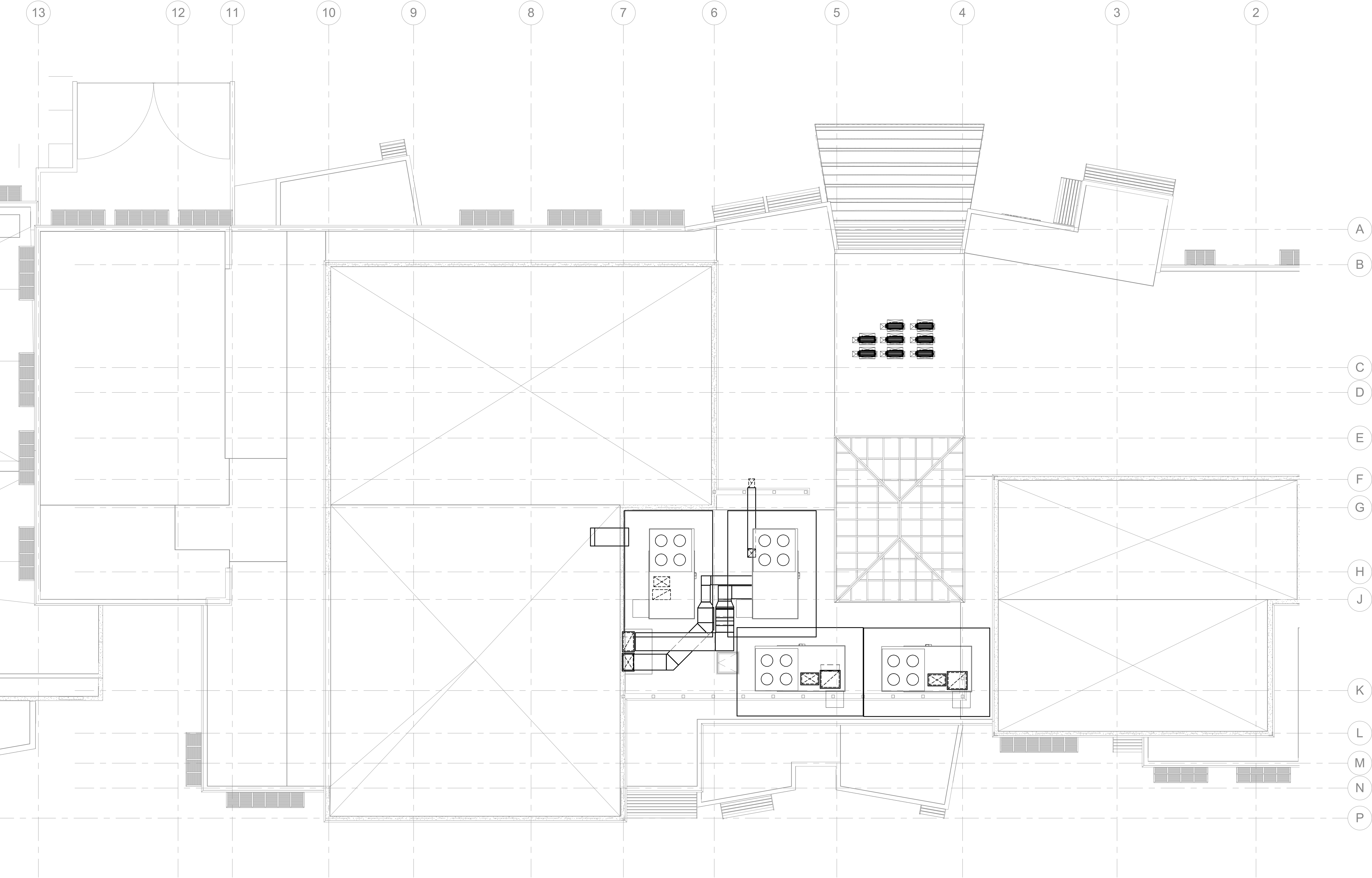
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**MECHANICAL
ROOF PLAN -
COURTHOUSE**

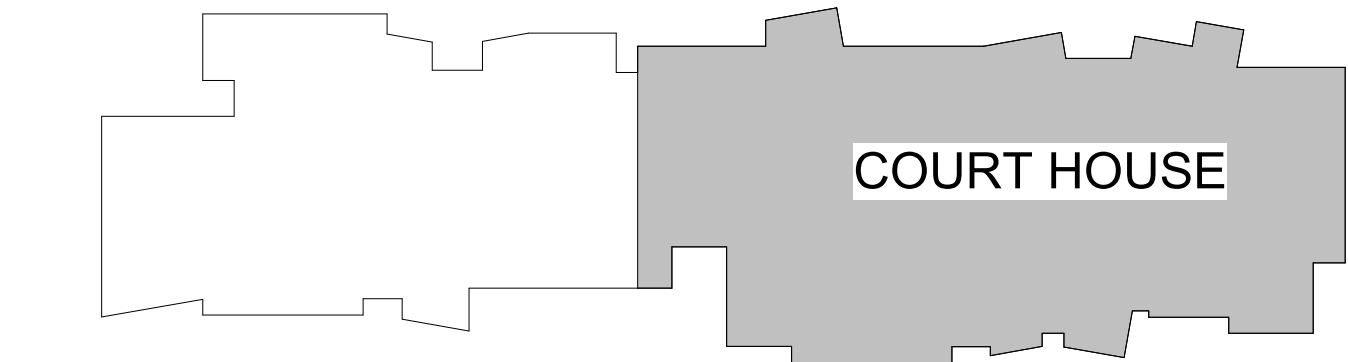
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M2.05

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8/4/2017 2:36:47 PM



1 MECHANICAL ROOF PLAN - COURTHOUSE
M2.05 1/8" = 1'-0"



KEY PLAN
1" = 60'-0"



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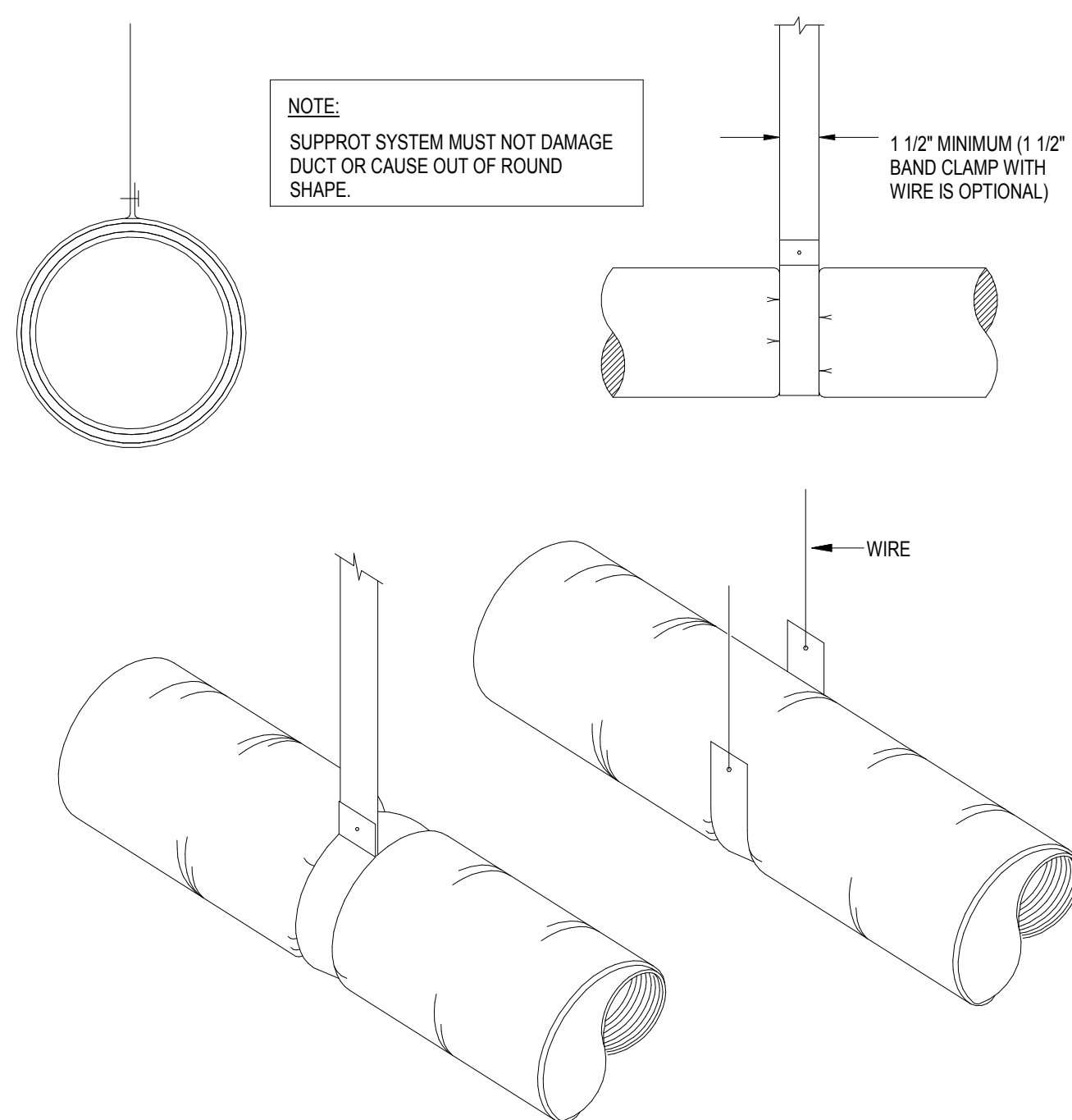
JOB NUMBER
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DRAWING NUMBER

M6.00

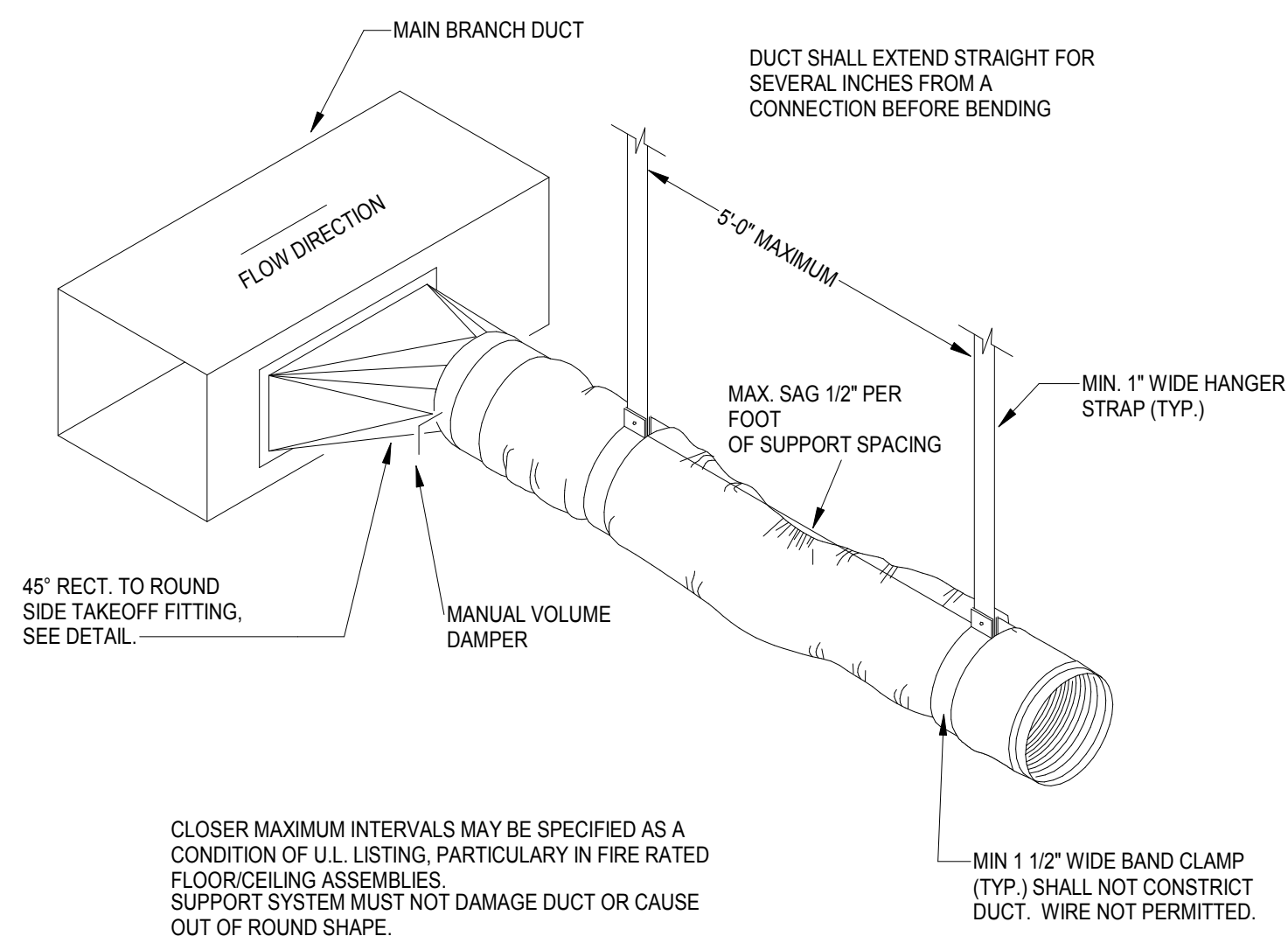
<p>CONTRACTOR SHALL PROVIDE FACTORY ROOF CURBS SIMILAR IN SHAPE TO ABOVE AS MANUFACTURED BY A.E.S. INC., CUSTOM CURB INC., PATE CURBS, RPS CORP., OR OTHER MANUFACTURER. ROOF CURBS SHALL BE DESIGNED TO MEET THE SUPPORT REQUIREMENTS OF THE DUCTWORK WITH REGARD TO DIMENSIONS, ANCHORING POINTS, ROOF TYPE AND INSULATION, ETC. ROOF CURBS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO ORDERING. FACTORY ROOF CURBS SHALL BE INCORPORATED INTO EXISTING ROOFING IN A MANNER SIMILAR TO ABOVE, WATERTIGHT, IN ACCORDANCE WITH THE SMACNA "ARCHITECTURAL SHEET METAL MANUAL" AND THE NATIONAL ROOFING CONTRACTORS ASSOCIATION "ROOFING & WATERPROOFING MANUAL".</p>		<p>SECTIONAL VIEW THROUGH TYPICAL ROOFTOP DUCTWORK</p>		<p>FACTORY CURB FOR TRANE T-SERIES</p>	
INSULATED OA DUCT ROOF PENETRATION DETAIL No Scale		ROOFTOP DUCTWORK No Scale		ROOFTOP AHU MOUNTING DETAIL No Scale	
<p>NOTE: ALL ROOF MOUNTED EQUIPMENT MUST ADHERE TO CURRENT HRRICANE CODE REGRDING ROOF TIE-IN AND WIND RESISTANCE.</p>		<p>NOTE: ROUND DUCT SHOWN AS TYPICAL. OTHER DUCT SIMILAR.</p>		<p>INSTALL S.D. IN LOCATION ACCESSIBLE WITH STANDARD LADDER PER CODE REQUIREMENTS. SEE SMOKE DETECTOR INSTALLATION DETAIL.</p>	
ROOF MOUNTED EXHAUST FAN No Scale		DUCT ROOF PENETRATION No Scale		ROOFTOP UNIT INSTALLATION DETAIL No Scale	

100%DD - 08/15/17



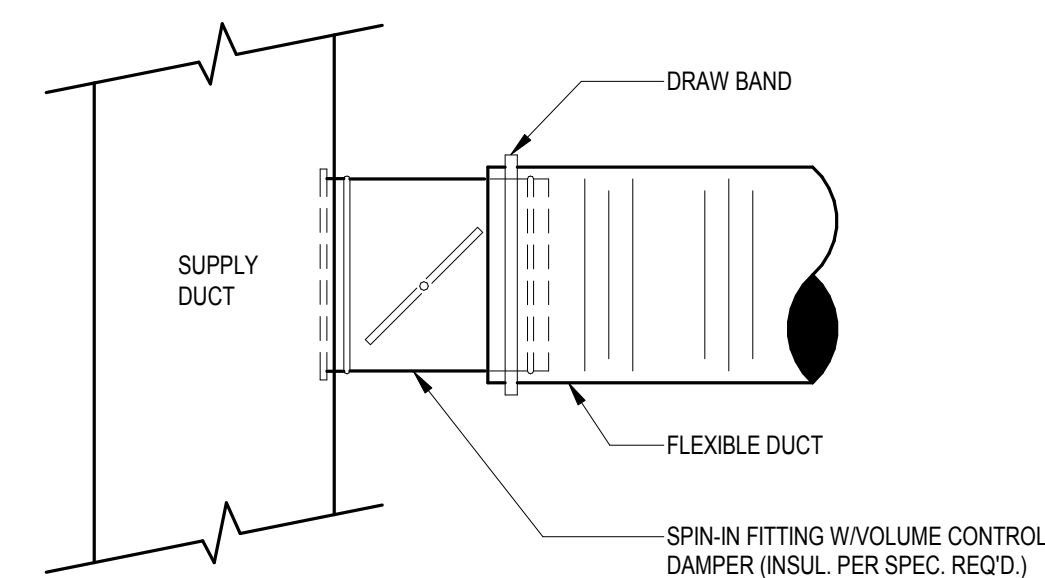
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12



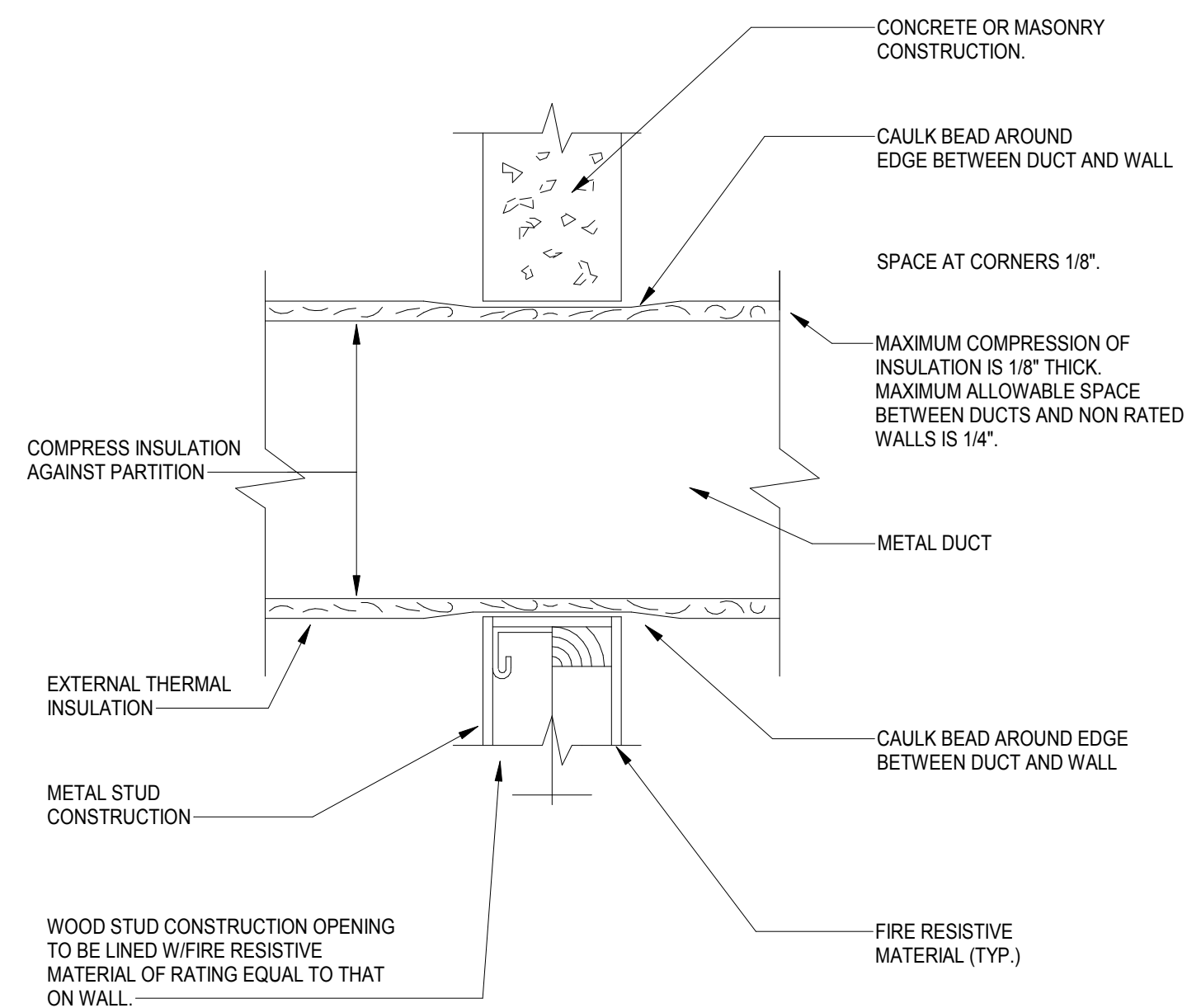
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10



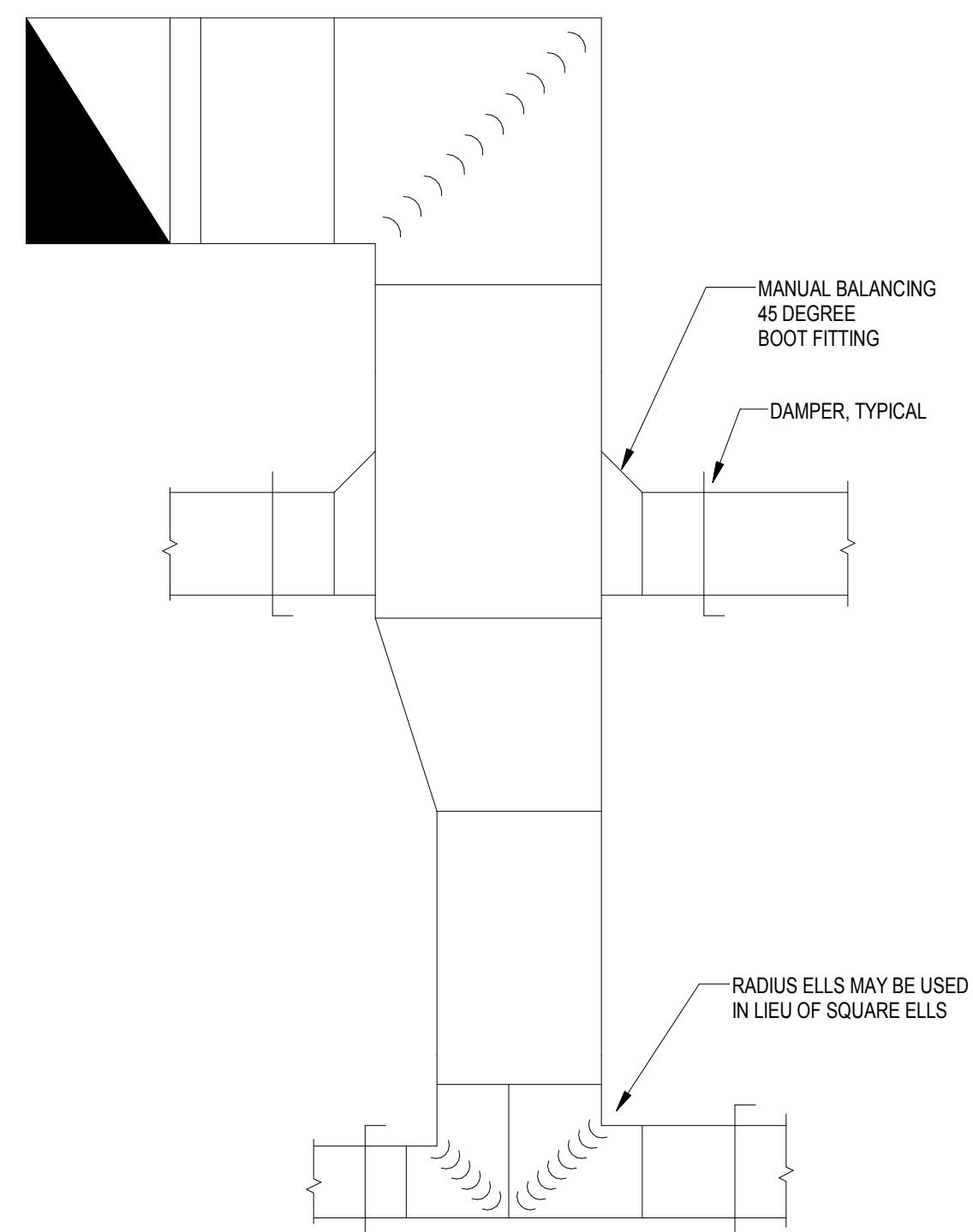
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8



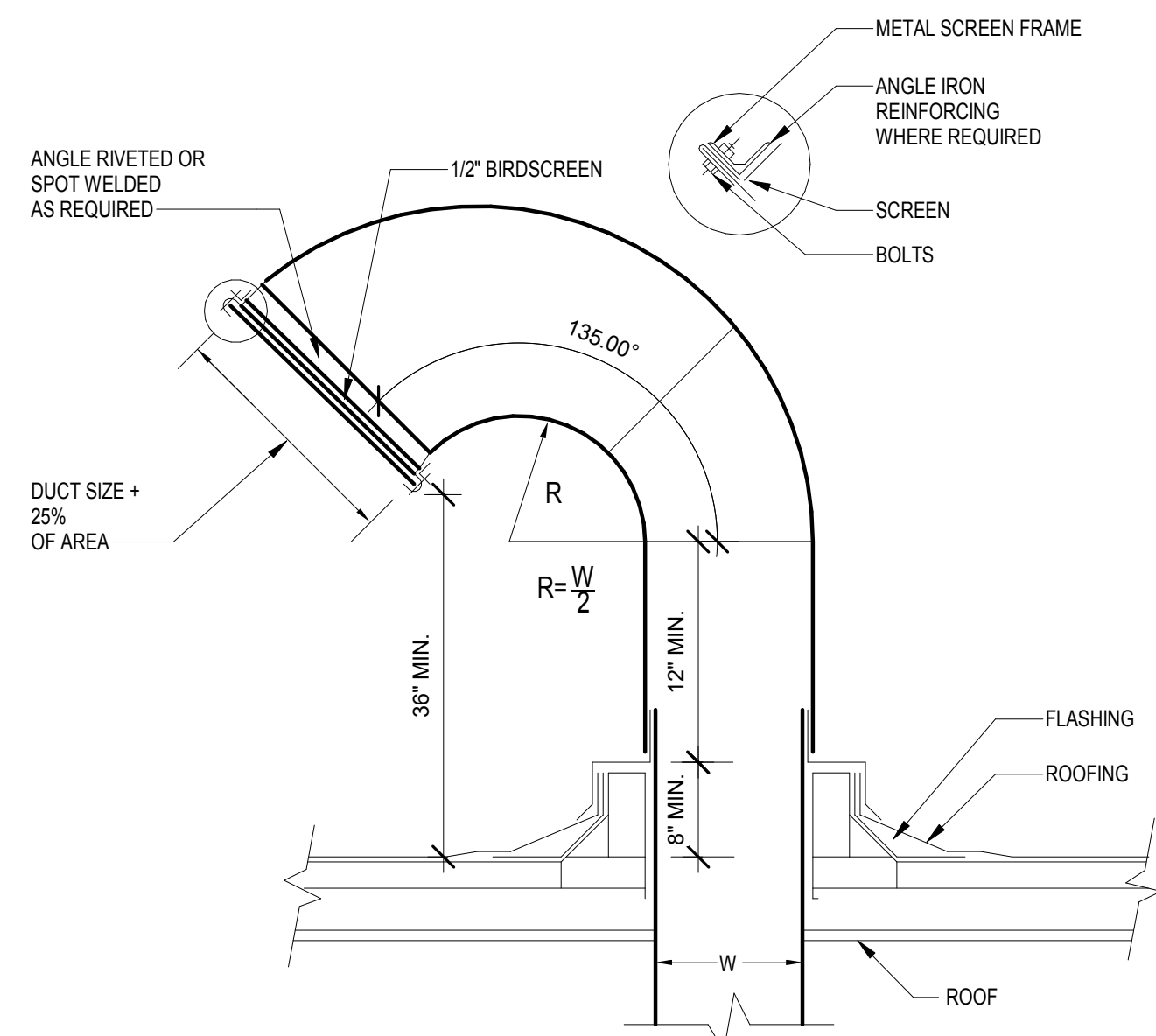
No Scale

11



No Scale

9



No Scale

7



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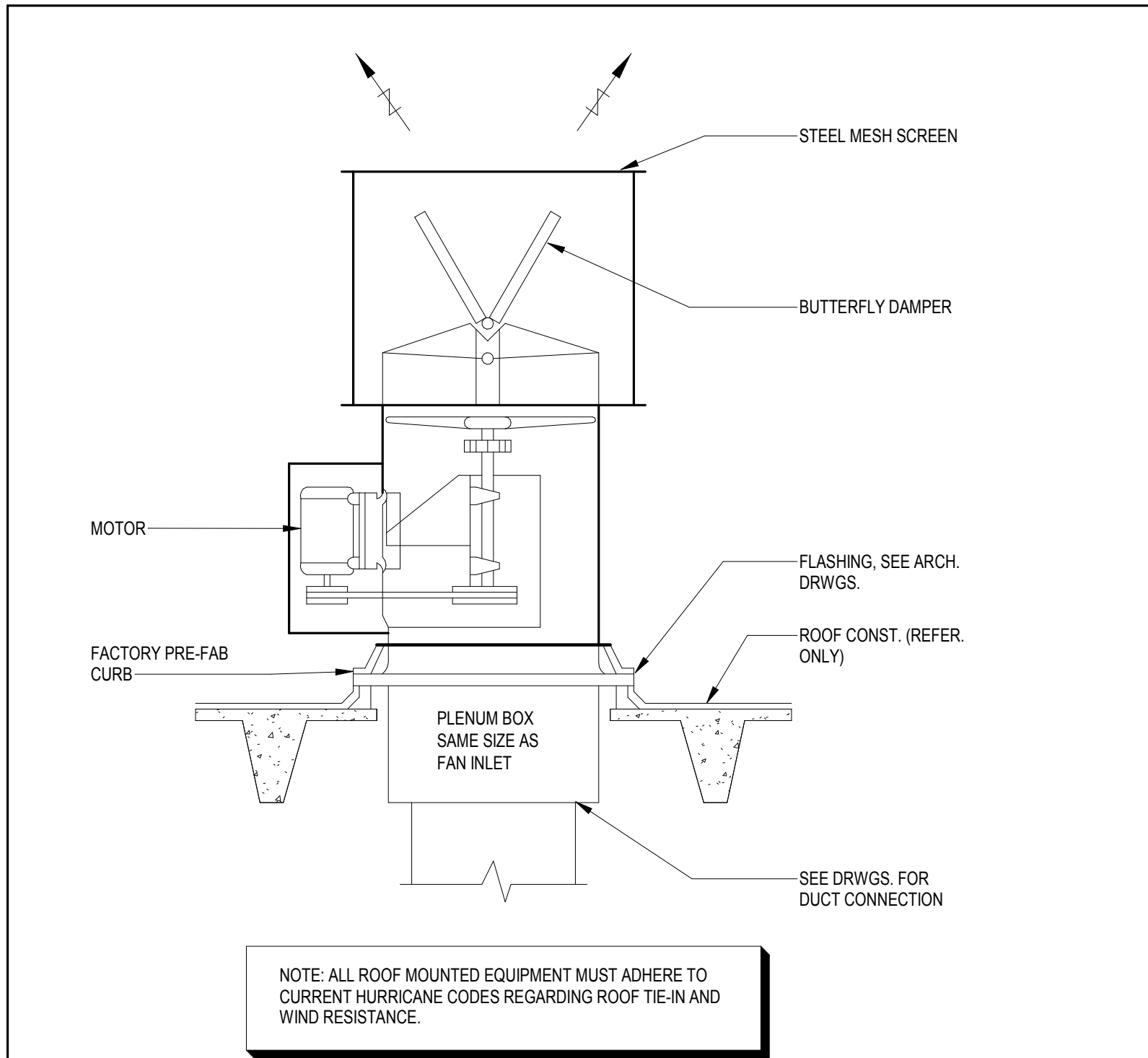
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SMOKE EVACUATION EXHAUST FAN

No Scale

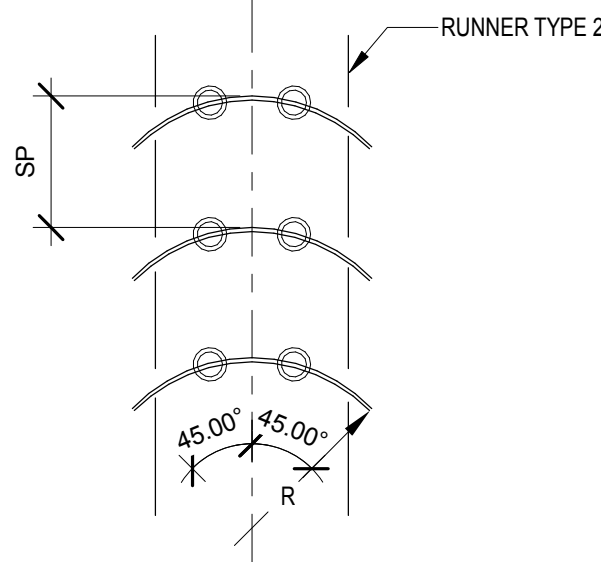
17

VARIABLE VOLUME TERMINAL NO HEATER

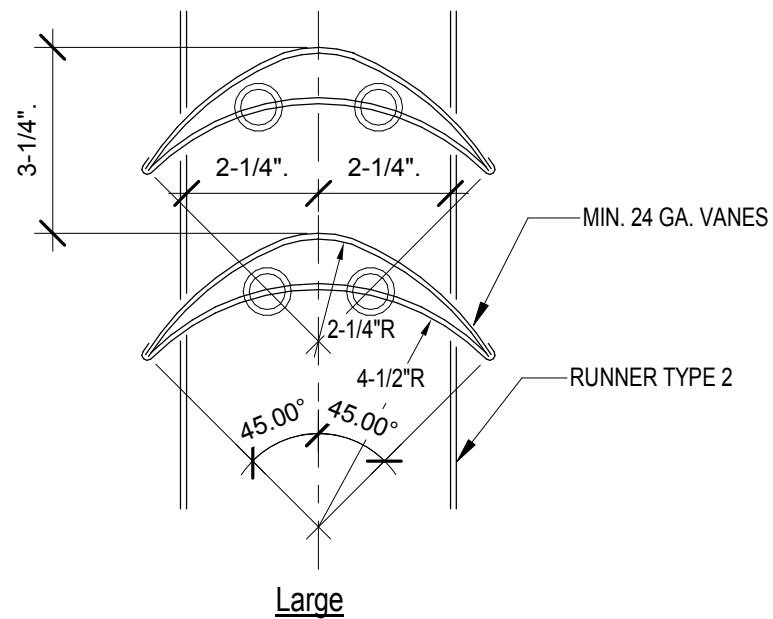
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15

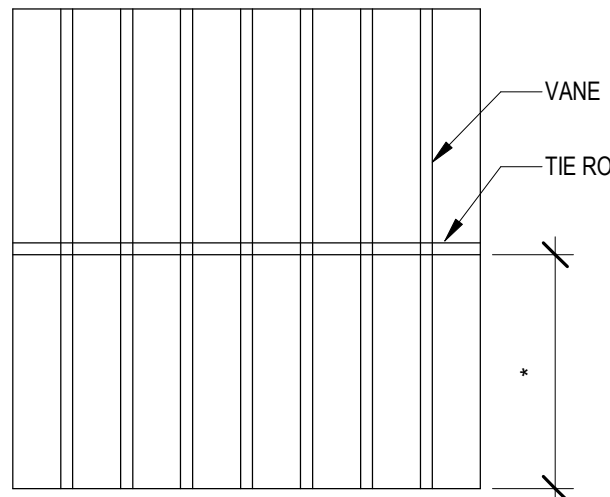
SINGLE VANE SCHEDULE			
	R (RADIUS)	SP	GAUGE
SMALL	2" (51 mm)	1-1/2" (38 mm)	24 (0.70 mm)
LARGE	4-1/2" (114 mm)	3-1/4" (83 mm)	22 (0.85 mm)



SINGLE VANE



DOUBLE VANE



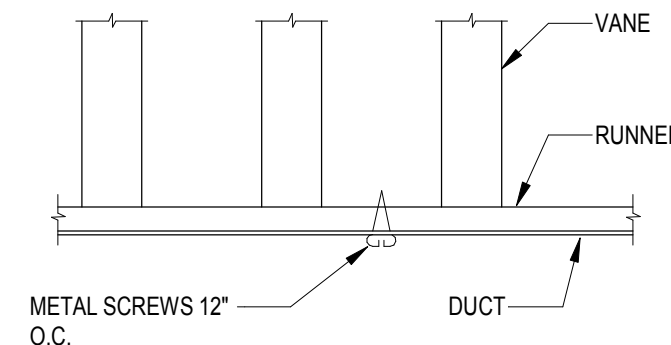
* MAXIMUM UNSUPPORTED VANE LENGTH

SMALL SINGLE VANE 36"
LARGE SINGLE VANE 36"
SMALL DOUBLE VANE 48"
LARGE DOUBLE VANE 72"

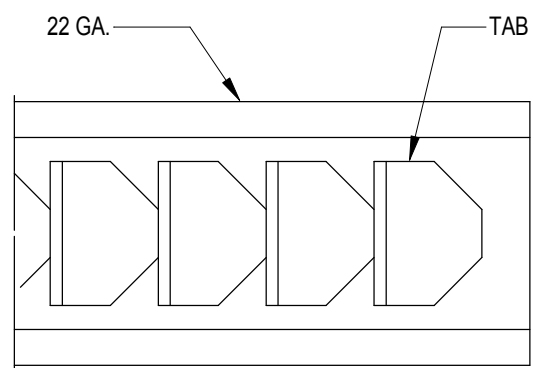
NOTE:
INSTALL VANES IN SECTIONS OR USE TIE RODS TO
LIMIT THE UNBRACED VANE LENGTH

NOTES:

1. VANES SHALL BE SECURELY FASTENED TO RUNNERS
2. ALL VANES SHALL BE SECURE AND STABLE IN INSTALLED OPERATING POSITION.

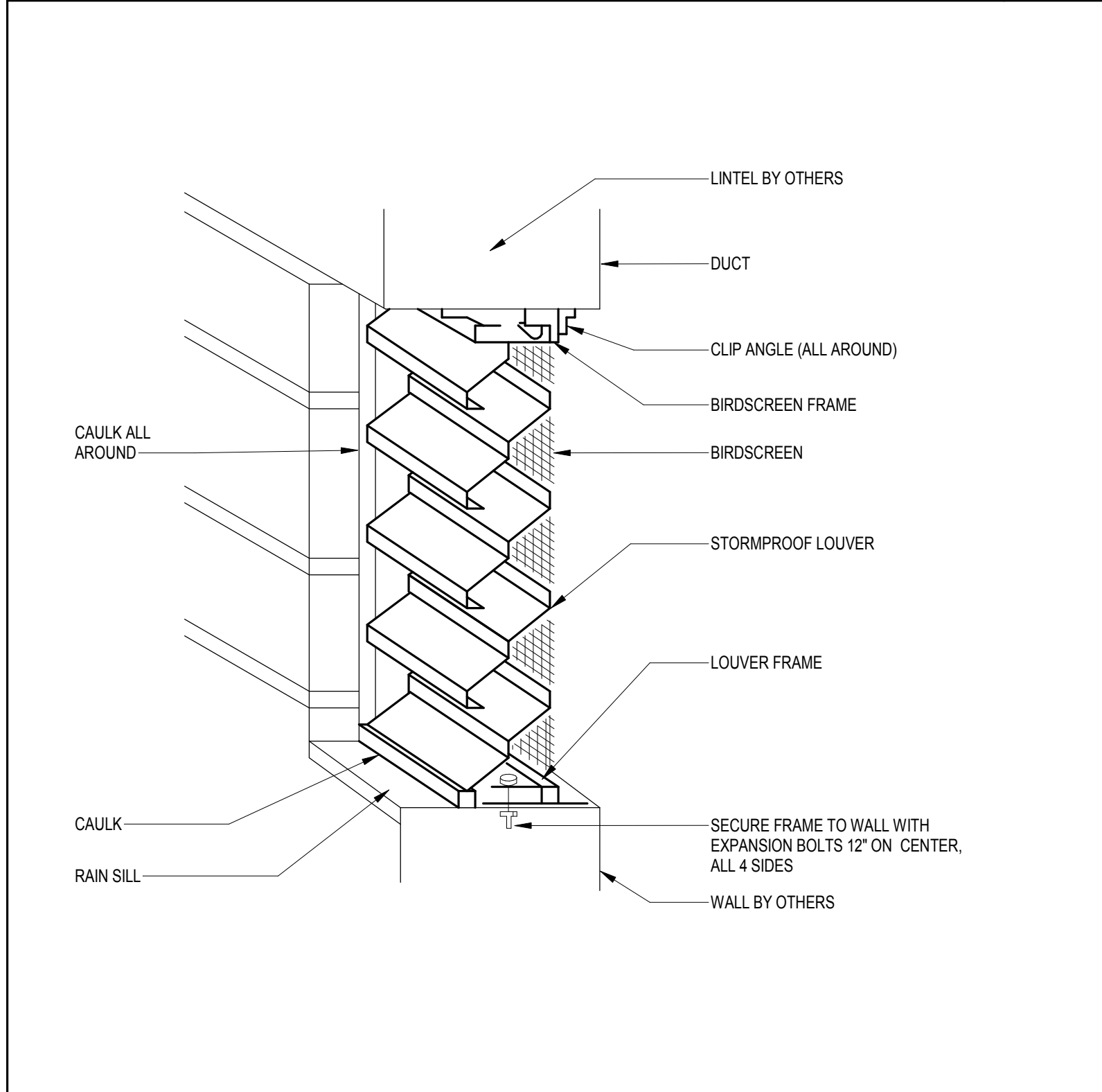


VANE SUPPORT



RUNNER TYPE 1

NOTE:
SEE MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.



TYPICAL WALL LOUVER

No Scale

16

VARIABLE VOLUME TERMINAL W/ ELECTRIC HEAT

No Scale

14

TURNING VANES

No Scale

13



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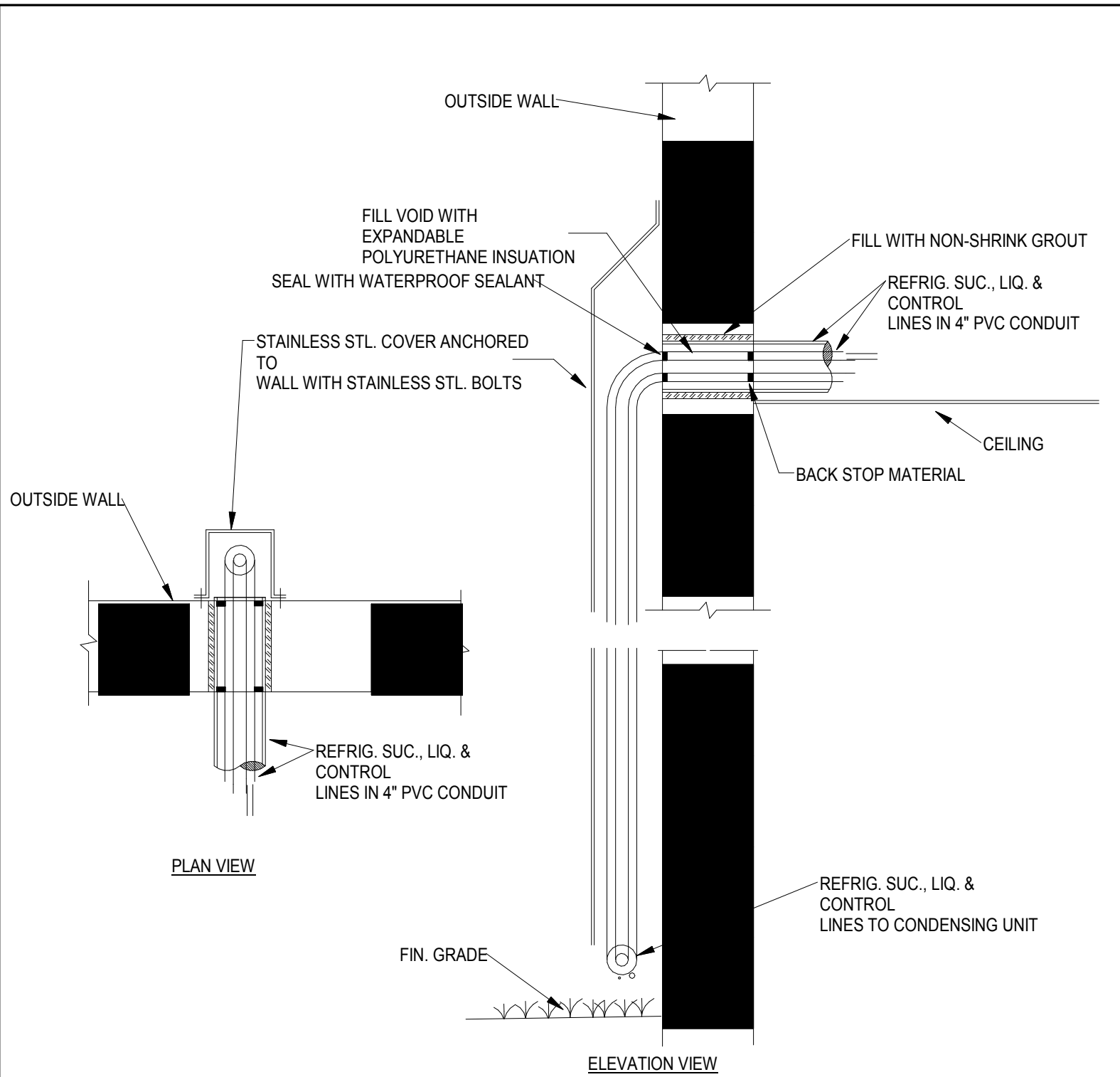
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TYPICAL REFRIGERATION PIPE WALL PENETRATION

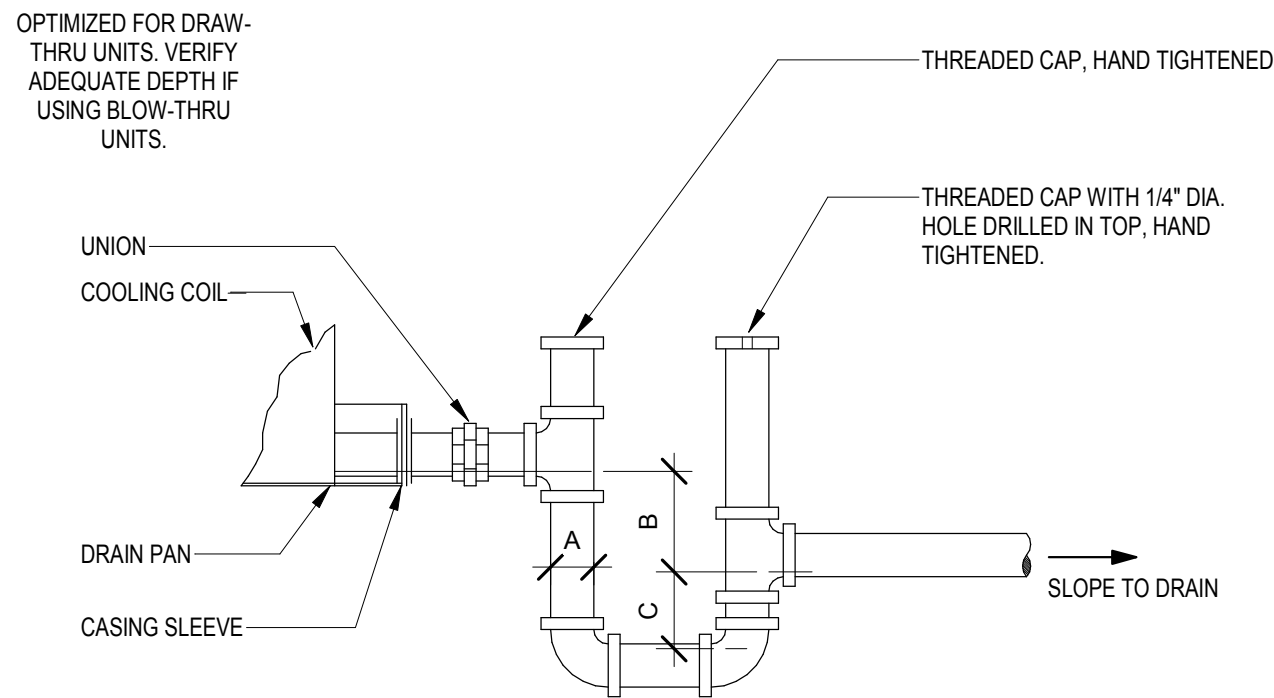
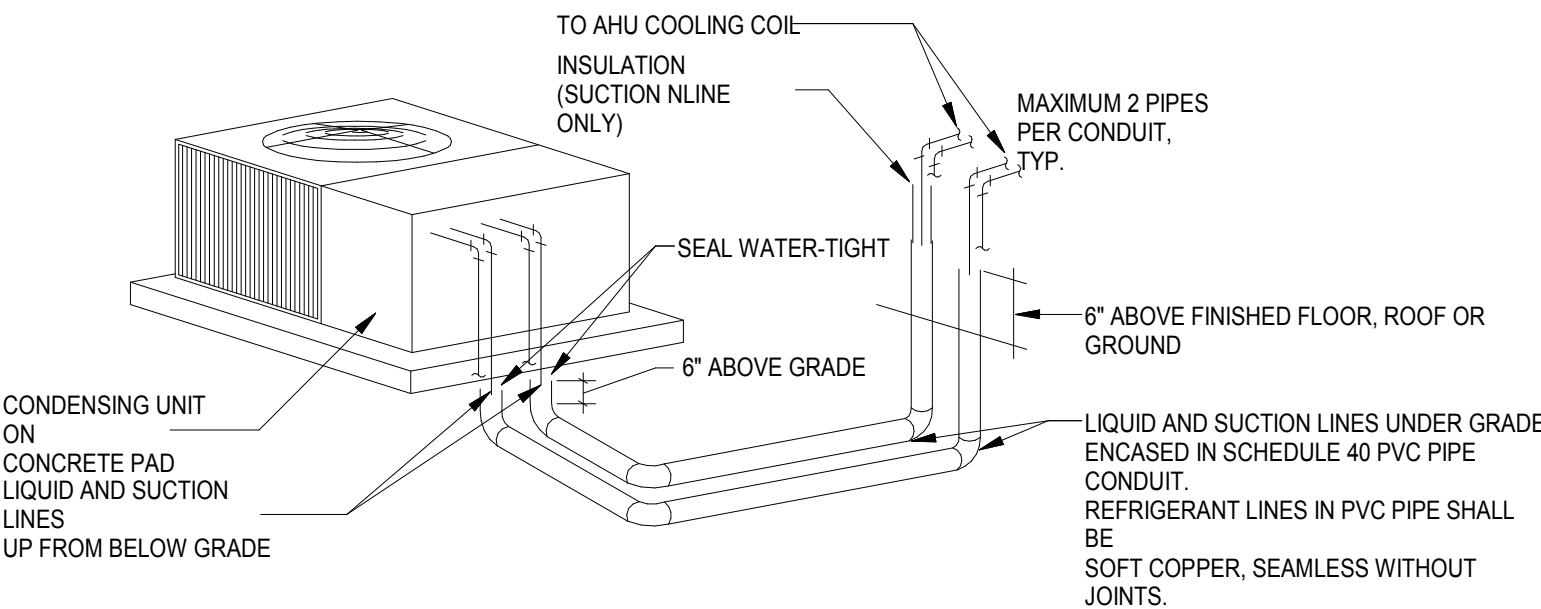
No Scale

21

CONDENSING UNIT PIPING DIAGRAM

No Scale

19



FOR ALL EQUIPMENT!!

CONDENSATE DRAIN PIPING DIMENSIONS:

A = FULL SIZE OF UNIT DRAIN CONNECTION
B > 1-1/2" TIMES FAN SUCTION STATIC PRESSURE
C > FAN DISCHARGE STATIC PRESSURE PLUS 1/2" INCH

COORDINATE MOUNTING/CURB HEIGHT AS REQUIRED TO PROVIDE PROPER CONDENSATE DRAINAGE.

AHU CONDENSATE DRAIN TRAP

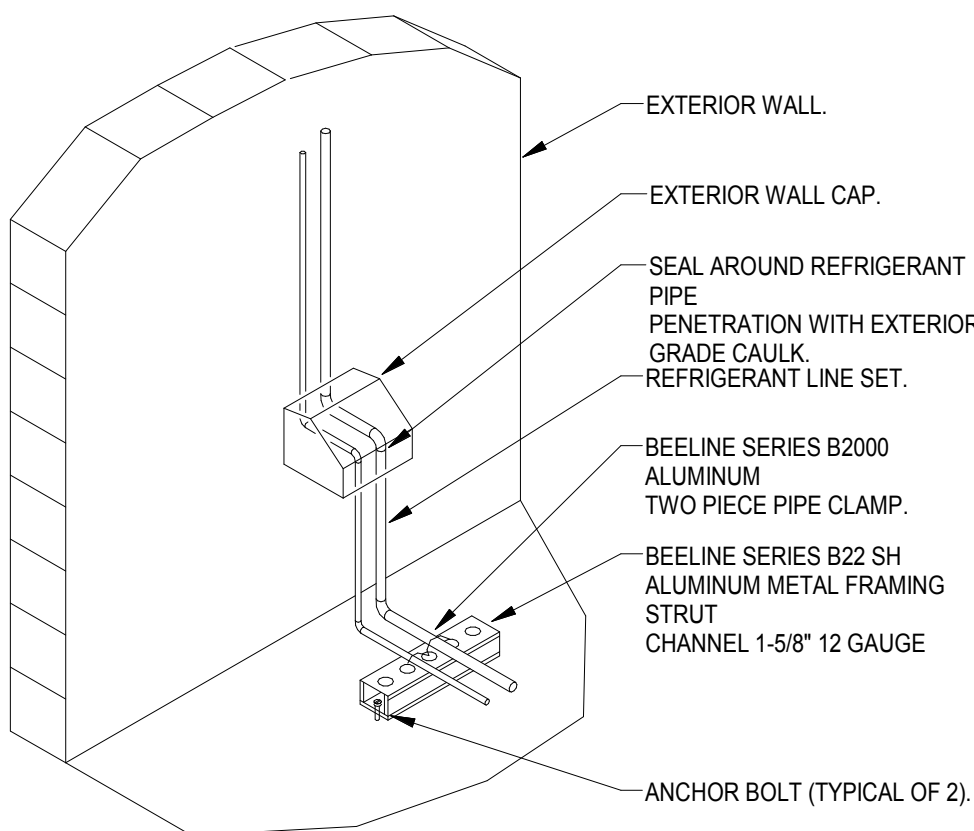
No Scale

22

REF. PIPING SUPPORT DETAIL.

No Scale

20



CONDENSING UNIT INSTALLATION DETAIL

No Scale

18

